PURCHASE DESCRIPTION

X-Y RECORDER

RXONT-B

- 1.0 <u>GENERAL</u> This procurement requires a high performance X-Y recorder with analog inputs and IEEE-488 control of all plotter/recorder functions.
- 2.0 <u>CLASSIFICATION</u> The equipment shall meet the requirements of MIL-T-28800(), Type III, Class 5, Style E, Color R for Navy shipboard, submarine, and shore applications with the following modifications and exceptions:
 - a. The relative humidity requirement is limited to 95% non-condensating.
 - b. The operating and non-operating altitude requirement is not invoked.
 - c. The Electromagnetic Interference requirements of MIL-T-28800() are limited to CE01, CE03, CS01, CS02 (0.05 to 100 MHz), CS06, RE01 (back panel search excluded), RE02 (14 kHz to 1 GHz), and RS03.

3.0 OPERATIONAL REQUIREMENTS

3.1 Main Frame

3.1.1		Paper Size: A4/A (8.5 in x 11 in) and A3/B (11 in x 17 in)
3.1.2		Paper Holddown: Electrostatic type or pinch rollers
3.1.3 3.1.3.1		Pens: Fiber tipped, fast drying, disposable Pen Lift: Local and remote control
3.1.4		Zero Offset: ±Full scale
3.1.5 3.1.5.1 3.1.5.2		Writing Speed: Direct Mode: At least 50 in/sec Plotting Mode: At least 30 in/sec
3.2	<u>Inputs</u>	
3.2.1 3.2.1.1 3.2.1.2		Channels: 3 (2 vertical; 1 horizontal) Connection type: Floating Input Impedance: 1 $M\Omega$ or greater
3.2.2		Sensitivity: At least 5 mV to 100 V full scale
3.2.3		Accuracy: ±0.3% of full scale or better
324		Common Mode Rejection: > 120 dB (dc): > 100 dB (ac)

3.3	Time Base (Plot input vs time)		
3.3.1	Range: At least 1 sec to 24 hrs full scale		
3.3.2	Accuracy: At least ±0.2% of full scale		
3.3.3	Linearity: At least ±1.0% of full scale		
3.3.4 3.3.4.1 3.3.4.2 3.3.4.3	Real-time Clock: Clock indicating a minimum of hours, minutes, and seconds Controls: Settable from front panel Battery: Lithium (provides backup power for clock when AC power is removed Accuracy: ±5 sec/day max time error		
3.4 3.4.1 3.4.2	<u>Digital Voltmeter (DVM)</u> : Measures voltage level of selected channel Display: At least 3 digits (floating point) Sample Rate: At least once/sec		
4.0	GENERAL REQUIREMENTS		
4.1	Power: 115/230 Vac ±10%, 50/60 Hz, 150 W maximum		
4.2	<u>Dimensions</u> : (W) 635 mm; (D) 508 mm; (H) 254 mm (25 in x 20 in x 10 in) maximum		
4.3	Weight: 16 kg (35.2 lbs) maximum		
1.4	<u>Calibration Interval</u> : The calibration interval shall be 12 months minimum. The equipment shall be within all accuracy requirements specified herein, with a 72% or greater confidence factor following a calibration interval of 12 months.		
4.5	Remote Control: All recorder and plotting functions shall be controllable via the IEEE-488 instrumentation bus.		